

Name: _____

at1121exam_practice: Radicals and Squares (v611)

Question 1

Simplify the radical expressions.

$$\sqrt{50}$$

$$\sqrt{44}$$

$$\sqrt{45}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x + 5)^2 + 5}{9} = 6$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 10x = -16$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 4x^2 + 24x + 44$$

Express the function in **vertex form** and identify the **location** of the vertex.